

~~7.~~ (NEW) The method according to claim 4, wherein the derivatized nucleotide comprises biotin, thiol or hydrazine.

~~8.~~ (NEW) The method according to claim 4, wherein the derivatized nucleotide comprises a radiolabel.

*B5*  
*Conf*  
~~9.~~ (NEW) The method according to claim 8, wherein the radiolabel comprises  $^3\text{H}$  or  $^{32}\text{P}$ .

~~10.~~ (NEW) The method according to claim 4, wherein the nucleotide triphosphates comprise at least one of ATP, GTP, CTP, TTP, and UTP and at least one non-standard nucleotide triphosphate selected from the group consisting of pyDAD, puADA, pyAAD, puDDA, pyDDA, puAAD, pyADD and puDAA.

*Pub 7*  
*EZ*  
~~11.~~ (NEW) The method according to claim 4, wherein the step of forming an oligonucleotide complementary to a portion of the template by enzymatic polymerization comprises contacting the oligonucleotide template with a mixture of nucleotide triphosphates and a polymerase enzyme.

~~12.~~ (NEW) The method according to claim 4, wherein the polymerase enzyme is a DNA polymerase enzyme selected from the group consisting of AMV reverse transcriptase, T4 DNA polymerase, and Klenow fragment of DNA polymerase I.

~~13.~~ (NEW) The method according to claim 4, wherein the polymerase enzyme is a Klenow fragment of DNA polymerase I.

~~14.~~ (NEW) The method according to claim 4, wherein the polymerase enzyme is T7 RNA polymerase.